



X4M05 Datasheet

X4 radar sensor module

XeThru Datasheet **by Novelda AS**

B Preliminary - October 31, 2017

Summary

X4M05 is an assembly of the X4SIP02 and X4A02 products



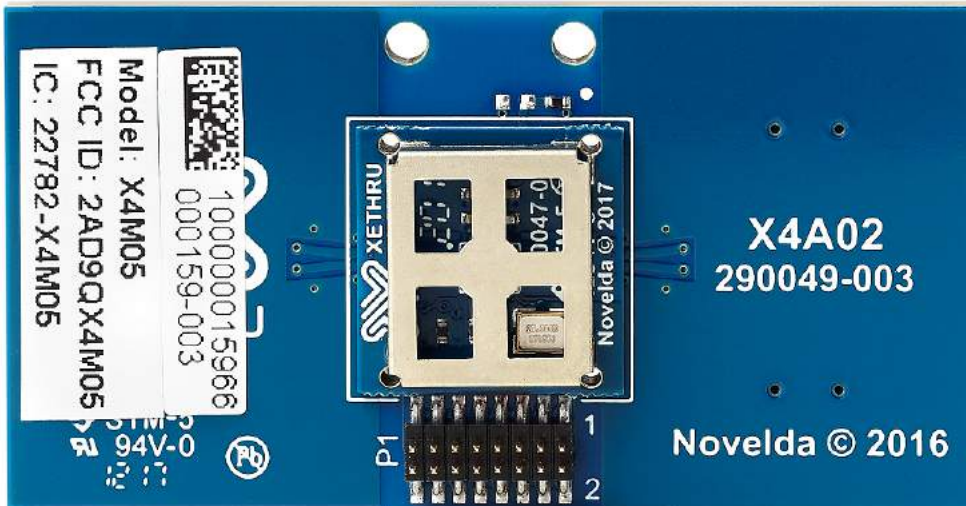
Table of Contents

List of Features	3
Order Information	3
Physical Dimensions	4
Connector Descriptions	4
Hardware Revisions	5
X4M05 rev.2	5
X4M05 rev.3	5
Schematics, Bill of Material and PCB Layout	5
Support and Resources	5
Disclaimer	6

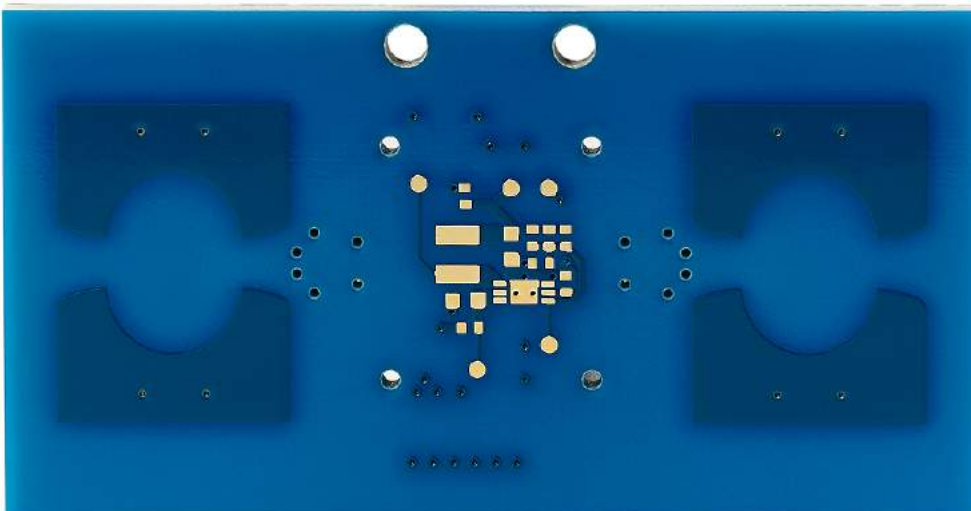


1 List of Features

- Assembly of X4SIP02 and X4A02
- Radar sensor module with antennas for X4 UWB radar SoC
- Designed for ETSI/FCC/IC compliant TX center frequency
- SPI interface to host



X4M05 top view



X4M05 bottom view

1.1 Order Information

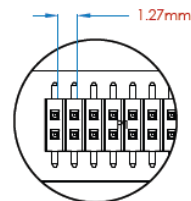
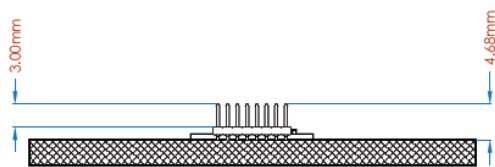
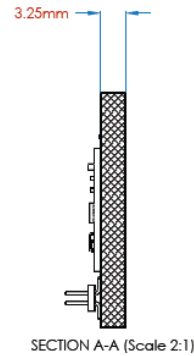
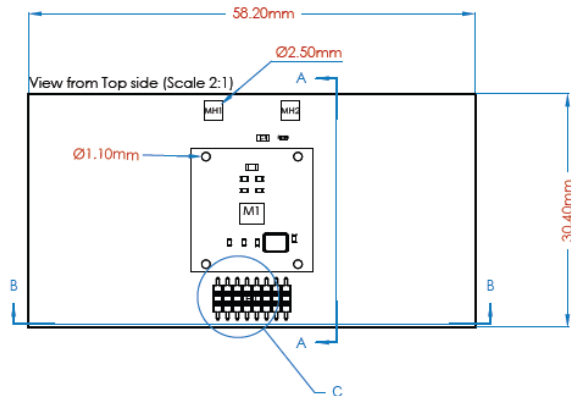
Order Code	Item Description	MOQ	MPQ
X4M05	X4M05 X4 Radar Sensor	1	1

MOQ: Minimum Order Quantity



MPQ: Minimum Package Quantity

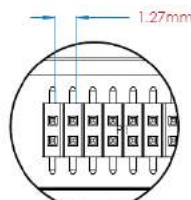
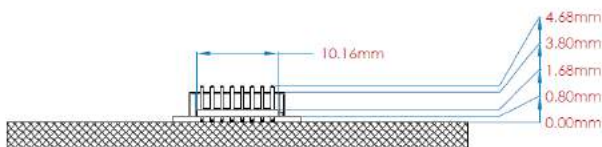
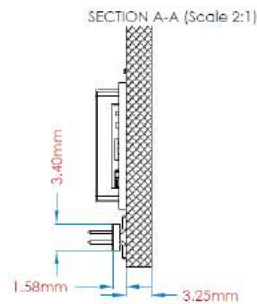
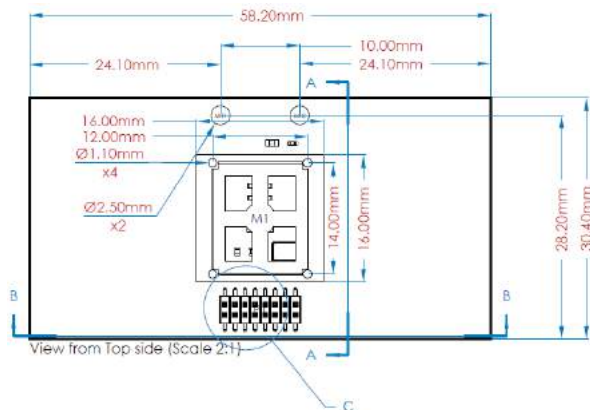
2 Physical Dimensions



SECTION B-B (Scale 2:1)

DETAIL C (Scale 4:1)

X4M05 rev.2 physical dimensions



SECTION B-B (Scale 2:1)

DETAIL C (Scale 4:1)

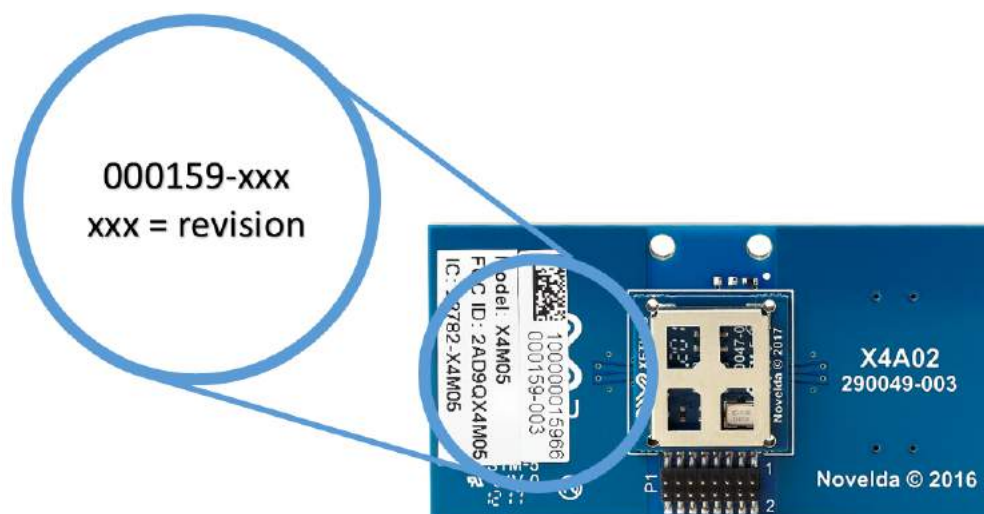
X4M05 rev.3 physical dimensions

3 Connector Descriptions

The connector on X4M05 is described in the X4A02 datasheet.



4 Hardware Revisions



How to identify HW revision of X4M05

For detailed descriptions of X4SIP02 and X4A02 hardware, see their respective datasheets.

4.1 X4M05 rev.2

Uses the following boards:

- X4SIP02 rev.3
- X4A02 rev.3

4.2 X4M05 rev.3

Uses the following boards:

- X4SIP02 rev.4 - Added shield box. Shield box is needed to comply with FCC modular approval.
- X4A02 rev.3

5 Schematics, Bill of Material and PCB Layout

Schematics, bill of material and PCB layout files for X4M05, X4SIP02 and X4A02 can be downloaded from www.xethru.com.

6 Support and Resources

Development support, resources, links to development partners and resellers can be found on Novelda's web site www.xethru.com.



7 Disclaimer

Novelda™, XeThru™ and others are registered trademarks or trademarks of Novelda AS. Other terms and product names may be trademarks of others.

DISCLAIMER: The information in this document is provided in connection with Novelda products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of Novelda products. EXCEPT AS SET FORTH IN THE NOVELDA TERMS AND CONDITIONS OF SALES LOCATED ON THE NOVELDA WEBSITE, NOVELDA ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL NOVELDA BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS AND PROFITS, BUSINESS INTERRUPTION, OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF NOVELDA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Novelda makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and products descriptions at any time without notice. Novelda does not make any commitment to update the information contained herein. Unless specifically provided otherwise, Novelda products are not suitable for, and shall not be used in, automotive applications. Novelda products are not intended, authorized, or warranted for use as components in applications intended to support or sustain life.

SAFETY-CRITICAL, MILITARY, AND AUTOMOTIVE APPLICATIONS DISCLAIMER: Novelda products are not designed for and will not be used in connection with any applications where the failure of such products would reasonably be expected to result in significant personal injury or death ("Safety-Critical Applications") without an Novelda officer's specific written consent. Safety-Critical Applications include, without limitation, life support devices and systems, equipment or systems for the operation of nuclear facilities and weapons systems. Novelda products are not designed nor intended for use in military or aerospace applications or environments unless specifically designated by Novelda as military-grade. Novelda products are not designed nor intended for use in automotive applications unless specifically designated by Novelda as automotive-grade.